Montana Nutrient Update

ESA DISCUSSION FEBRUARY 17, 2015







Montana

MT adopted numeric nutrient criteria for TN/TP for wadeable streams and the Yellowstone River.

Rule package submitted to EPA in August 2014.

Includes provisions for general and individual

variances.



Examples of Draft Numeric Nutrient Criteria (July 2013)						
		Numeric Nutrient Standard				
Ecoregion (level III or IV) and Number, or Individual Reach Description	Period When Criteria Apply	Total Phosphorus (μg/L)	Total Nitrogen (μg/L)			
ECOREGION (level III or IV):						
Northern Rockies (15)	July 1 to September 30	25	275			
Canadian Rockies (41)	July 1 to September 30	25	325			
Idaho Batholith (16)	July 1 to September 30	25	275			
Middle Rockies (17)	July 1 to September 30	30	300			
Absaroka-Gallatin Volcanic Mountains (17i)	July 1 to September 30	105	250			
Northwestern Glaciated Plains (42)	June 16 to September 30	110	1300			
Sweetgrass Upland (42I), Milk River Pothole Upland (42n), Rocky Mountain Front Foothill Potholes (42q), and Foothill Grassland (42r)	July 1 to September 30	80	560			
Northwestern Great Plains (43) and Wyoming Basin (18)	July 1 to September 30	150	1300			
River Breaks (43c)	narrative criterion only	narrative criterion only	narrative criterion only			
Non-calcareous Foothill Grassland (43s), Shields- Smith Valleys (43t), Limy Foothill Grassland (43u), Pryor-Bighorn Foothills (43v), and Unglaciated Montana High Plains (43o)*	July 1 to September 30	33	440			
INDIVIDUAL REACHES (Large Rivers):						
Yellowstone River (Bighorn River confluence to Powder River confluence)	August 1 -October 31	55	655			
Yellowstone River (Powder River confluence to stateline)	August 1 -October 31	95	815			

Variance Limits

Variances up to 20 years, subject to 3-year reviews

- Rules require the limits below until 2016
 - General Variance:
 - > 1 MGD: 1 mg TP/L, 10 mg TN/L
 - < 1 MGD: 2 mg TP/L, 15 mg TN/L</p>
 - ► Lagoons: Maintain current performance

These limits expire in July 2017.

Individual Variance: Permittee may apply for these if meeting the general variance is difficult, or if treating beyond gen. levels does not make sense. Requires case-by-case analysis.

Other Montana Work

- Nutrient Trading:
 - MDEQ adopted a nutrient trading policy
 - MT is currently completing analysis of supply/ demand to understand the program's viability
- Lagoons:
 - MDEQ has hired a contractor to evaluate options for nitrogen reductions in lagoons (for both ammonia and TN).
 - Plan to test recommended approaches in 2015.
- State investing in optimization.

Facility_Name	County	Receiving Water	Species	Design_ MGD
TOWN OF DARBY WWTF	Ravalli	BITTERROOT RIVER	Bull Trout (LT)	0.155
STEVENSVILLE WWTP	Ravalli	BITTERROOT RIVER	Bull Trout (LT)	0.3
LOLO WWTP	Missoula	BITTERROOT RIVER	Bull Trout (LT)	0.34
CITY OF HAMILTON WWTP	Ravalli	BITTERROOT RIVER	Bull Trout (LT)	1.987
REVETT SILVER COMPANY - ROCK CREEK MINE	Sanders	CLARK FORK RIVER, ROCK CREEK	Bull Trout (LT)	0
TOWN OF PHILIPSBURG WWTP	Granite	FLINT CREEK	Bull Trout (LT)	0.2
MONTANORE MINERALS CORP MONTANORE MINE	Lincoln	LIBBY CREEK & ALLUVIAL GROUNDWATER	Bull Trout (LT)	0
TOWN OF NASHUA WWTF	Valley	MILK RIVER	Pallid Sturgeon (LE)	0.048
CITY OF GLASGOW WWTF	Valley	MILK RIVER	Pallid Sturgeon (LE)	0.7
EUREKA SEWAGE TREATMENT	Lincoln	TOBACCO RIVER	Bull Trout (LT)	0.35
BN WHITEFISH FACILITY	Flathead	WHITEFISH RIVER	Bull Trout (LT)	0
CITY OF WHITEFISH WWTF	Flathead	WHITEFISH RIVER	Bull Trout (LT)	1.25
TOWN OF SAVAGE WWTP	Richland	YELLOWSTONE RIVER	Pallid Sturgeon (LE)	0.04
TOWN OF TERRY WWTF	Prairie	YELLOWSTONE RIVER	Pallid Sturgeon (LE)	0.15
MILES CITY WWTP	Custer	YELLOWSTONE RIVER	Pallid Sturgeon (LE)	2
MDU - LEWIS & CLARK PLANT	Richland	YELLOWSTONE RIVER	Pallid Sturgeon (LE)	42.34

